

New Claims

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Serial No. 09/674,935  
Response to Official Action

**Listing of All Claims Including Current Amendments**

1. – 37. (Cancelled)

(38.) (New) A method of treating a mammalian subject to protect against an infectious disease, comprising administering to a mammalian subject a therapeutically effective amount of Escherichia coli heat labile enterotoxin B subunit (EtxB), wherein the EtxB is free from whole toxin and is not linked to an antigen.

39. (New) The method according to claim 38, wherein the EtxB increases the levels of B and T cell lymphocyte response.

40. (New) The method according to claim 38, wherein the antigen is a virus antigen from the herpes virus family.

41. (New) The method according to claim 40, wherein the virus antigen is an antigen of a virus selected from the group consisting of Herpes Simplex Virus-1 (HSV-1), Herpes Simplex Virus-2 (HSV-2), Epstein-Barr Virus (EBV), Varicella-zoster Virus (VZV), Cytomegalovirus (CMV), Human Herpes Virus-6 (HHV-6), Human Herpes Virus-7 (HHV-7) and Human Herpes Virus-8 (HHV-8).

42. (New) The method according to claim 41, wherein the virus antigen is an antigen of a virus selected from the group consisting of HSV-1, HSV-2, CMV or EBV.

43. (New) The method according to claim 38, wherein the said EtxB is administered to the said mammalian subject in conjunction with administration of an antigen, and wherein the EtxB is not linked to the antigen,

44. (New) The method according to claim 43, wherein the said EtxB and antigen are administered to the said mammalian subject in an amount which is effective to increase the mammalian subject's levels of B and T cell lymphocyte response to the antigen.

45. (New) The method according to claim 44, wherein the said EtxB and antigen are co-administered to the said mammalian subject.

46. (New) The method according to claim 41, wherein the said EtxB is administered to the said mammalian subject in conjunction with administration the virus antigen, and wherein the EtxB is not linked to the antigen,

47. (New) The method according to claim 46, wherein the said EtxB and virus antigen are administered to the said mammalian subject in an amount which is effective to increase the mammalian subject's levels of B and T cell lymphocyte response to the antigen.

48. (New) The method according to claim 47, wherein the said EtxB and virus antigen are co-administered to the said mammalian subject.

49. (New) A method of treating a mammalian subject to protect against an infectious disease, comprising administering Escherichia coli heat labile enterotoxin B subunit (EtxB) in conjunction with administration of an antigen associated with an infectious disease, wherein the EtxB is free from whole toxin and is not linked to the antigen, to a mammalian subject in an amount which is effective to increase the mammalian subject's levels of B and T cell lymphocyte response to the antigen.

50. (New) The method according to claim 49, wherein the antigen is a virus antigen from the herpes virus family.

51. (New) The method according to claim 50, wherein the virus antigen is an antigen of a virus selected from the group consisting of Herpes Simplex Virus-1 (HSV-1), Herpes Simplex Virus-2 (HSV-2), Epstein-Barr Virus (EBV), Varicella-zoster Virus (VZV), Cytomegalovirus (CMV), Human Herpes Virus-6 (HHV-6), Human Herpes Virus-7 (HHV-7) and Human Herpes Virus-8 (HHV-8).

52. (New) The method according to claim 51, wherein the virus antigen is an antigen of a virus selected from the group consisting of HSV-1, HSV-2, CMV or EBV.

53. (New) The method according to claim 51, wherein the said EtxB and virus antigen are co-administered to the said mammalian subject.

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**In the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A method for ~~stimulating~~ enhancing the level of an immune response to a vaccine against an infectious agent ~~applied to~~ in a mammalian subject comprising ~~the step of administering to the subject an effective amount of~~ the B subunit of E. Coli. heat labile enterotoxin (EtxB), wherein the EtxB is ~~or a molecule having substantially equivalent activity, free from whole toxin and not linked to an antigen.~~
2. (Canceled)
3. (Previously amended) A method according to claim 1, wherein the vaccine is one for an infectious agent which is a member of the herpes virus family.
4. (Previously amended) A method according to claim 3, wherein the vaccine is one for an infectious agent is selected from the group consisting of HSV-1, HSV-2, EBV, VZV, CMV, HHV-6, HHV-7 and HHV-8.
5. (Previously amended) A method according to claim 4, wherein the vaccine is one for an infectious agent is selected from the group consisting of HSV-1, HSV-2, CMV and EBV.
6. (Withdrawn) A method according to claim 1, wherein the infectious disease is caused by an infectious agent, and the infectious agent is an influenza virus.
7. (Withdrawn) A method according to claim 1, wherein the infectious disease is caused by an infectious agent, and the infectious agent is a parainfluenza virus.